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Supplementary Material

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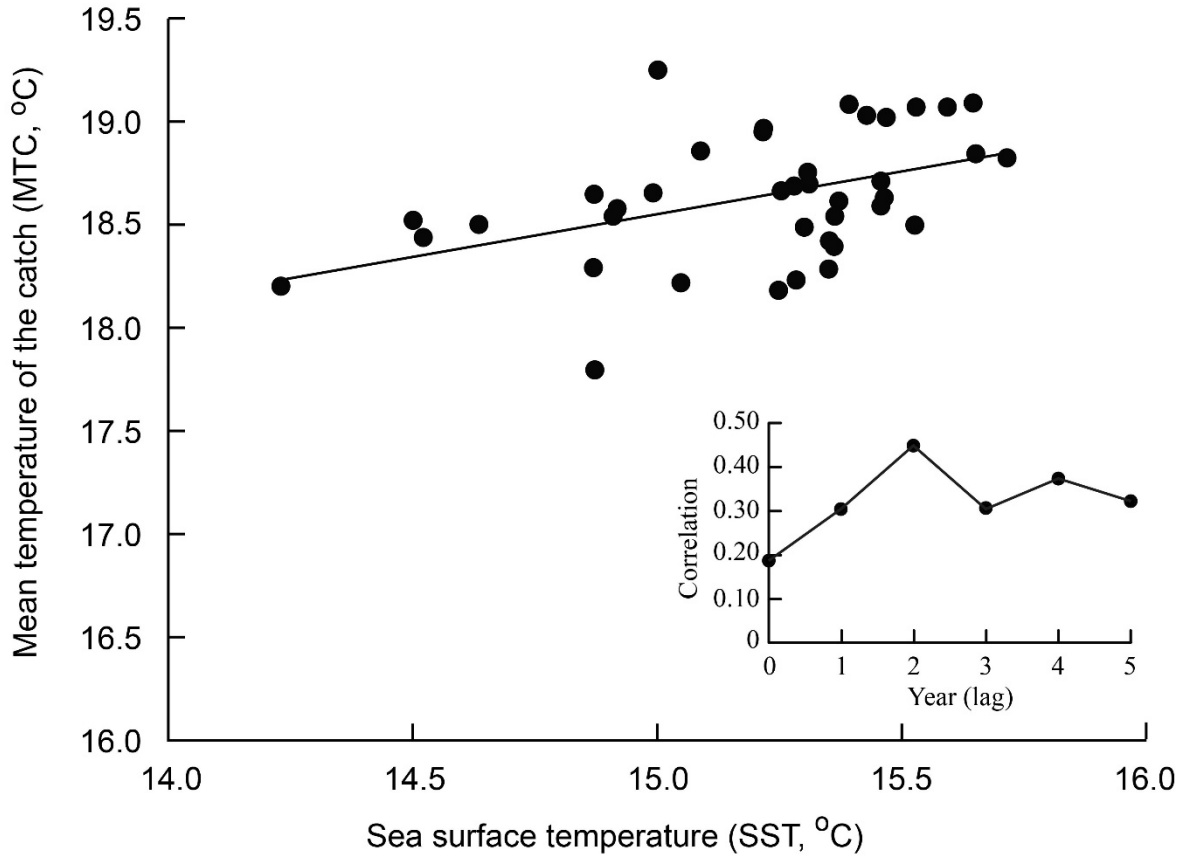


Fig. 3: Correlation ($r = 0.45$; $p < 0.01$) between the mean of SST on 3 points of the Turkish EEZ in the Black Sea and the Mean Temperature of the Catch (MTC) in that same EEZ, lagged 2 years. The insert shows the correlations at lags 0 to 5 years; the regression equation was $MTC = 12 + 0.41(SST, \text{ in } ^\circ\text{Celsius})$ and a lag of 2 years were used to generate the continuous, but fluctuating line in Figure 2D.

Table 1a. List of the fishes includes in the present study and their corresponding trophic level (TL; from FishBase) and temperature preference (TP; from Cheung *et al.*, 2013); n: number of TL estimates available from FishBase. SE: standard error of median TL. When n was < 3, the average TL was used, and standard deviations (SD) are given. Regions: EM = Eastern Mediterranean; BS = Black Sea.

Taxa	TL	±SE	±SD	n	TP	Region
<i>Alosa fallax</i>	3.6	-	-	1	15	EM, BS
<i>Argyrosomus regius</i>	4.3	0.75	-	1	19	EM, BS
<i>Atherinidae</i>	3.2	0.20	-	6	15	EM, BS
<i>Auxis spp.</i>	4.3	0.10	-	4	27	EM, BS
<i>Belone belone</i>	4.2	0.10	-	3	15	EM, BS
<i>Boops boops</i>	2.9	-	0.5	2	20	EM, BS

<i>Chelidonichthys lucerna</i>	3.6	0.10	-	3	15	EM, BS
<i>Conger conger</i>	4.3	0.10	-	3	16	EM, BS
<i>Dentex dentex</i>	4.5	-	-	2	19	EM, BS
<i>Dentex gibbosus</i>	4.1	-	-	1	21	EM
<i>Dentex macrophthalmus</i>	3.4	0.20	-	3	23	EM
<i>Dentex maroccanus</i>	3.9	-	-	1	19	EM
<i>Diplodus annularis</i>	3.2	0.10	-	3	13	EM
<i>Diplodus puntazzo</i>	3.0	-	-	1	23	EM
<i>Diplodus sargus</i>	3.0	0.20	-	4	22	EM, BS
<i>Diplodus vulgaris</i>	3.2	0.20	-	4	21	EM, BS
<i>Engraulis encrasicolus</i>	3.4	0.30	-	3	19	EM, BS
<i>Epinephelus aeneus</i>	3.8	-	-	1	27	EM
<i>Epinephelus caninus</i>	4.1	-	-	1	26	EM
<i>Epinephelus costae</i>	3.9	-	-	1	26	EM
<i>Epinephelus marginatus</i>	3.9	0.12	-	3	25	EM
<i>Euthynnus alletteratus</i>	4.5	-	-	1	23	EM,BS
<i>Gaidropsarus mediterraneus</i>	3.6	0.03	-	4	16	EM,BS
<i>Gobius niger</i>	3.3	0.06	-	6	12	EM,BS
<i>Lepidorhombus spp</i>	4.0	0.10	-	6	15	EM
<i>Lichia amia</i>	4.5	-	-	1	26	EM, BS
<i>Lithognathus</i>	3.4	-	0.1	2	24	EM, BS
<i>Lophius piscatorius</i>	4.5	0.04	-	5	14	EM, BS
<i>Merlangius merlangus</i>	4.4	-	0.1	2	11	EM, BS
<i>Merluccius merluccius</i>	4.3	0.13	-	4	18	EM, BS
<i>Micromesistius poutassou</i>	4.0	0.10	-	5	15	EM
Mugilidae (EM) ¹	2.5	0.08	-	10	15	EM
Mugilidae (BS) ²	2.4	0.08	-	11	16	BS
<i>Mullus barbatus</i>	3.2	0.06	-	14	17	EM, BS
<i>Mullus surmuletus</i>	3.4	0.03	-	12	19	EM, BS
<i>Oblada melanura</i>	3.0	-	-	1	24	EM, BS
<i>Pagellus erythrinus</i>	3.4	0.05	-	16	18	EM, BS
<i>Pagrus caeruleostictus</i>	3.8	-	-	1	24	EM
<i>Pagrus pagrus</i>	3.9	0.06	-	7	25	EM
<i>Peristedion cataphractum</i>	3.6	-	-		24	EM
<i>Phycis blennoides</i>	3.6	-	0.1	2	16	EM, BS
<i>Phycis phycis</i>	4.2	0.06	-	5	20	EM
<i>Pomatomus saltatrix</i>	4.5	-	-	1	27	EM, BS
<i>Raja clavata</i>	4.3	-	-	2	17	EM, BS
<i>Sarda sarda</i>	4.5	-	-	1	23	EM, BS
<i>Sardina pilchardus</i>	3.1	0.03	-	3	16	EM, BS
<i>Sarpa salpa</i>	2.3	0.17	-	4	25	EM, BS
<i>Sciaena umbra</i>	3.8	-	-	1	19	EM, BS
<i>Scomber colias</i>	3.6	0.16	-	6	12	EM, BS
<i>Scomber scombrus</i>	3.8	-	0.1	2	12	EM, BS
<i>Scomberesox saurus</i>	3.6	-	-	1	20	EM
<i>Scomberomorus commersoni</i>	4.5	-	-	1	28	EM
<i>Scophthalmus spp</i>	3.9	-	0.2	2	11	BS

<i>Scorpaena porcus</i>	3.9	0.08	-	9	18	EM, BS
<i>Scorpaena scrofa</i>	4.3	0.03	-	4	25	EM
<i>Seriola dumerili</i>	4.3	0.15	-	9	27	EM
<i>Serranus cabrilla</i>	4.3	0.19	-	5	23	EM
<i>Serranus scriba</i>	3.8	0.03	-	4	23	EM, BS
Soleidae & Pleuronectidae ³	3.2	0.04	-	11	14	BS
<i>Sphyræna</i> spp	4.2	-	0.02	2	27	EM, BS
<i>Spicara</i> spp	3.3	0.06	-	5	16	EM, BS
<i>Spondyliosoma cantharus</i>	3.3	-	-	1	19	EM, BS
<i>Squalus acanthias</i>	4.5	-	-	1	16	EM, BS
<i>Squatina</i> spp	4.1	0.03	-	3	15	EM, BS
Synodontidae ⁴	4.2	0.20	-	3	27	EM
<i>Thunnus alalunga</i>	4.3	-	-	1	27	EM
<i>Thunnus thynnus</i>	4.4	-	-	1	24	EM
<i>Trachurus mediterraneus</i>	3.6	0.09	-	5	19	EM, BS
<i>Trachurus trachurus</i>	3.7	0.10	-	4	18	EM, BS
<i>Trigla lyra</i>	3.5	0.07	-	4	24	EM, BS
<i>Umbrina cirrosa</i>	3.5	-	-	1	15	EM, BS
<i>Xiphias gladius</i>	4.5	-	-	2	26	EM, BS
<i>Zeus faber</i>	4.5	-	-	1	17	EM, BS

1) Mugilidae (EM): *Mugil cephalus*, *Chelon labrosus*, *L. aurata*, *L. saliens*;

2) Mugilidae (BS): *Mugil cephalus*, *Chelon labrosus*, *Liza aurata*, *L. saliens* *L. haematocheli*;

3) Soleidae & Pleuronectidae: *Solea solea*, *Platichthys flesus*;

4) Synodontidae: *Synodus saurus*, *Saurida undosquamis*.

Table 1b. List of the invertebrates included in the present study, their trophic level (TL; from SeaLifeBase) and temperature preference (TP; from Cheung *et al.*, 2013) by region (EM = Eastern Mediterranean; BS = Black Sea).

Species	TL	TP	Region
<i>Callinectes sapidus</i>	3.5	25	EM
<i>Cancer pagurus</i>	2.6	14	EM, BS
<i>Chamelea gallina</i>	2.1	14	BS
<i>Homarus gammarus</i>	2.6	14	EM
<i>Loligo vulgaris</i>	4.1	18	EM
<i>Melicertus kerathurus</i>	2.0	27	EM
<i>Metapenaeus monoceros</i>	2.0	27	EM
<i>Mytilus galloprovincialis</i>	2.5	17	BS
<i>Nephrops norvegicus</i>	2.2	17	EM
<i>Parapenaeus longirostris</i>	2.7	25	EM
<i>Penaeus monodon</i>	2.7	26	EM
<i>Penaeus semisulcatus</i>	2.7	27	EM
<i>Portunus pelagicus</i>	2.0	27	EM
<i>Sepia officinalis</i>	3.6	19	EM
<i>Squilla mantis</i>	2.7	22	EM